### APPENDIX B3 SPECIATED TANK EMISSIONS



## Estimated Tank Emissions (lb/yr) (1)

Tank ID         VCC         BRC73         Acetone BRC7           4         372.16         yes         0.20         yes           5         372.16         yes         0.20         yes           6         372.16         yes         0.00         yes           10         7         110.72         yes         0.00         yes           10         110.72         yes         0.07         yes         0.07         yes           10         110.72         yes         0.07         yes </th <th>Benzene</th> <th>-</th> <th>-</th> <th>ŀ</th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>- [</th> <th>322100</th> <th>Hazardous Air Poliutants</th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Trimothyd.</th> <th></th> <th>L</th>	Benzene	-	-	ŀ					-	- [	322100	Hazardous Air Poliutants		-									Trimothyd.		L
AP 42 EF: 49         GAC25%         RRC7           372.16         yes         0.055%         yes           372.16         yes         0.20         yes           372.16         yes         0.20         yes           110.72         yes         0.06         yes           110.72         yes         0.06         yes           110.72         yes         0.07         yes           110.72         yes         0.07         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           114.53         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.00         yes           131.79         yes         0.00         yes           134         yes         0.00         yes           1.34         yes         0.00         yes           1.34         yes         0.00         yes           1.34 <th>Benzene</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>•</th> <th></th> <th></th> <th>-</th> <th>_</th> <th></th> <th>-</th> <th></th> <th></th> <th>L</th> <th></th> <th> </th> <th> </th> <th>L</th> <th>-</th> <th>F</th> <th></th> <th></th> <th></th>	Benzene						•			-	_		-			L				L	-	F			
AP-42 EF: **Id         0.0655%         yes           372.16         yes         0.20         yes           372.16         yes         0.20         yes           372.16         yes         0.06         yes           110.72         yes         0.06         yes           110.72         yes         0.07         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           114.53         yes         0.07         yes           114.53         yes         0.07         yes           114.53         yes         0.07         yes           114.53         yes         0.07         yes           117.78         yes         0.07         yes           117.79         yes         0.07         yes           117.49         yes         0.00         yes           11.34         yes         0.00         yes           11.34         yes         0.00         yes           11.34         yes         0.00         yes           11.34         yes         0.00         yes           11.3		BRC?	₩ ₩	BRC?	Carbon Disutfide BRC?	Pexane Pexane	BRC?	DETA	BRC?	enzene B	BRC?	ehyde BR	BRC? He	Hexane BRC?	So- soctane	e BRC?	Netrayiene	e BRC?	? Styrene	e BRC?	? Toluene	BRC?	benzene	xylene	BRC?
372.16 yes 0.20 yes 372.16 yes 0.20 yes	0.032%	0	0.039%	O	0.016%	2		ð	)	0.038%		%69.0	ö	0.10%	0.00031%	×2	0.00027%	- N	0.0054%	2	0.062%		ą	note 5	
372.16 yes 0.20 yes 372.16 yes 0.20 yes 170.72 yes 0.20 yes 110.72 yes 0.06 yes 110.72 yes 0.06 yes 110.72 yes 0.06 yes 118.26 yes 0.07 yes 114.23 yes 0.07 yes 113.4 yes 0.00 yes 1.34 yes 0.00 yes 0.00 yes 1.34 yes 0.00 yes 0					90.000 March 1900			(A)((B)(A)(A)	As	Asphalt Cements	že sta														
372.16         yes         0.20         yes           372.16         yes         0.20         yes           110.72         yes         0.06         yes           110.72         yes         0.06         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           114.53         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           131.79         yes         0.00         yes           134         yes         0.00         yes           134 </td <td>0.12</td> <td>yes</td> <td>0.15 y</td> <td>yes</td> <td>0.06 yes</td> <td>S</td> <td>yes</td> <td>ð</td> <td>yes</td> <td>0.14</td> <td>yes</td> <td>2.57 Level</td> <td><u>e</u></td> <td>0.37 yes</td> <td>L</td> <td>0.00 yes</td> <td></td> <td>0.00 yes</td> <td>0.02</td> <td>32 yes</td> <td>0.23</td> <td>3 yes</td> <td>Š</td> <td>0.96</td> <td>ξ</td>	0.12	yes	0.15 y	yes	0.06 yes	S	yes	ð	yes	0.14	yes	2.57 Level	<u>e</u>	0.37 yes	L	0.00 yes		0.00 yes	0.02	32 yes	0.23	3 yes	Š	0.96	ξ
372.16         yes         0.20         yes           110.72         yes         0.06         yes           280.11         yes         0.07         yes           110.72         yes         0.07         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           114.53         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           11.34         yes         0.00         yes           <	0.12	yes	0.15 y	yes	0.06 yes	QN	yes	Q	yes	0.14	yes	2.57 Level	ē I	0.37 yes		0.00 yes		0.00 yes	0.02		0.23		QN	0.96	
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10.72   yes   0.06   yes   280.11   yes   0.15   yes   118.26   yes   0.07   yes   118.26   yes   0.07   yes   118.26   yes   0.07   yes   114.23   yes   0.07   yes   114.23   yes   0.07   yes   114.23   yes   0.07   yes   131.78   yes   0.07   yes   131.78   yes   0.07   yes   131.78   yes   0.07   yes   151.76   yes   0.07   yes   151.76   yes   0.07   yes   151.76   yes   0.07   yes   151.76   yes   0.00   yes   134.77   yes   0.01   yes   134.77   yes   0.01   yes   134.77   yes   0.01   yes   134.77   yes   0.01   yes   0.02   yes   0.02   yes   0.01   yes   0.02   yes   0.03   yes	0.04	89,	0.04 y	88 S	0.02 yes	ð	88	2	ž	0.04	yes	0.76 Level	<u></u>		L		_		_	L	<u> </u>		ã	0.28	ı
280.11         yes         0.15         yes           110.72         yes         0.05         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           114.53         yes         0.07         yes           114.53         yes         0.07         yes           147.08         yes         0.07         yes           147.08         yes         0.07         yes           147.08         yes         0.03         yes           131.78         yes         0.03         yes           373.18         yes         0.00         yes           4.77         yes         0.00         yes           1.34         yes         0.00         yes           1.34 </td <td>9.0</td> <td>X8</td> <td>0.04 y</td> <td>žē,</td> <td>0.02 yes</td> <td>8</td> <td>88</td> <td>ð</td> <td>yes</td> <td>0.04</td> <td>yes</td> <td>0.76 Level</td> <td>- Gē</td> <td>0.11 yes</td> <td></td> <td>0.00 yes</td> <td>_</td> <td>0.00 yes</td> <td>0.01</td> <td>71 yes</td> <td>0.07</td> <td>7 yes</td> <td>ş</td> <td>0.28</td> <td>8</td>	9.0	X8	0.04 y	žē,	0.02 yes	8	88	ð	yes	0.04	yes	0.76 Level	- Gē	0.11 yes		0.00 yes	_	0.00 yes	0.01	71 yes	0.07	7 yes	ş	0.28	8
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118.26         yes         0.07         yes           118.26         yes         0.07         yes           118.26         yes         0.07         yes           118.27         yes         0.07         yes           114.53         yes         0.07         yes           114.53         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           373.18         yes         0.07         yes           134         yes         0.00         yes           134 <td< td=""><td>9. Ş</td><td>şğ</td><td>0.04</td><td>ž,</td><td>0.02 yes</td><td>2</td><td>ž</td><td>2</td><td>žě</td><td>0.04</td><td>šėž</td><td>0.76 Level</td><td><u>ā</u></td><td>0.11 yes</td><td></td><td>0.00 yes</td><td>L</td><td>0.00 yes</td><td>10.0</td><td></td><td>0.07</td><td>7 yes</td><td>g</td><td>0.28</td><td>l</td></td<>	9. Ş	şğ	0.04	ž,	0.02 yes	2	ž	2	žě	0.04	šėž	0.76 Level	<u>ā</u>	0.11 yes		0.00 yes	L	0.00 yes	10.0		0.07	7 yes	g	0.28	l
118.26         yes         0.07         yes           118.26         yes         0.07         yes           118.28         yes         0.07         yes           114.53         yes         0.06         yes           147.08         yes         0.07         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           373.18         yes         0.01         yes           151.16         yes         0.01         yes           1.34         yes         0.00         yes           2.479	9.0	<u>8</u>	0.05	yes.	0.02 yes	9	89.	Ş	şě	0.04	yes	0.82 Level i	<u>ā</u>	0.12 yes	L	0.00 yes	L	0.00 yes	L	<u> </u>	L	_	£	0.30	l
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114.53   yes   0.06   yes   114.53   yes   0.07   yes   114.53   yes   0.07   yes   114.53   yes   0.07   yes   114.70   yes   0.00   yes   0.	9.0	<u>8</u>	0.05 y	yes	0.02 yes	Ð	Š	₽	yes	I	yes	0.82 Level	ē	0.12 yes	L	0.00 yes		0.00 yes			L		2	0:30	l
118.26         yes         0.07         yes           114.53         yes         0.06         yes           131.78         yes         0.07         yes           131.78         yes         0.07         yes           137.18         yes         0.01         yes           373.18         yes         0.21         yes           373.18         yes         0.01         yes           151.16         yes         0.00         yes           1.34         yes         0.00         yes           2.479	0.04	SS,	0.04	yes		£	ž	S	yes	0.04	yes	0.79 Level	رة. ا		_			0.00 yes		_	. 0.07		2	0.23	<u>!</u>
147.08 yes 0.08 yes 147.08 yes 154.708 yes 0.00 yes 131.78 yes 0.00 yes 373.18 yes 0.01 yes 157.18 yes 0.01 yes 157.18 yes 0.02 yes 157.18 yes 0.00 yes 1.34 yes 0.00	0.04	85,	0.05 y	yes	0.02 yes	ð	Ř	õ	yes	0.04	yes	0.82 Level	<u>ة</u>	0.12 yes	ļ	0.00 yes		0.00 yes	L	<u> </u>	0.07	7 yes	2	0:30	ட
147.06   yes   0.08   yes   131.78   yes   0.07   yes   0.08   yes   0.09   yes   0.08   yes   0.09   yes   0.09   yes   0.09   yes   0.09   yes   0.09   yes   0.09   yes   0.00   yes	0.04	yes	0.04	yes	0.02 yes	g	Ř	g	yes	0.04	yes	0.79 Level	ē	0.11 yes		0.00 yes		0.00 yes	10.0	L	0.07	7 yes	9	0.29	§.
131.78   yes   0.07   yes   131.78   yes   0.07   yes   0.08   yes   0.09   yes   0.00   yes	90.0	yes	0.06 y	yes	0.02 yes	QN	yes	QN	yes	0.06	yes	1.01 Level	ē	0.15 yes		0.00 yes		0.00 yes	0.01	of yes	0.09	Say es	QN	0.38	300
131.78   yes   0.007   yes   373.18   yes   0.01   yes   373.18   yes   0.01   yes   373.18   yes   0.02   yes   373.18   yes   0.00   yes   4.77   yes   0.00   yes   1.34   yes   0.01   yes   1.34   yes   0.02   yes   1.34   yes   0.02   yes   1.34   yes   0.02   yes   1.34   yes   0.02   yes   0.02   yes   1.34   yes   0.02   yes   0.03	0.0	88	0.05 y	yes	0.02 yes	QN	yes	QN	yes	0.05	yes	0.91 Level	·el l	0.13 yes		0.00 yes	26000	0.00 yes	0.01		0.08	8 yes	S	0.34	8
373.18 yes 0.08 yes 373.18 yes 0.21 yes 373.18 yes 0.21 yes 151.16 yes 0.00 yes 1.34	0.0	yes	0.05 y	se.	0.02 yes	QN	ş	Q	yes.	0.05	yes	0.91 Level	<u>=</u>	0.13 yes			100	0.00 yes			0.08		QN	0.34	
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373.18         yes         0.21         yes           151.16         yes         0.08         yes           4.77         yes         0.00         yes           1.34         yes         0.01         yes           1.34         yes         0.01         yes           1.34         yes         0.01         yes           2.479         yes         0.01         yes           2.479         yes         0.01         yes           4         yes         0.01         yes           4         yes         0.02         yes           147         yes         0.02         yes           147         yes	0.12	yes	0.15 y	yes	0.06 yes	QN	yes	GN	yes	0.14	yes	2.57 Level	el l						0.02	1 1	0.23		ND	0.96	
151.16         yes         0.08         yes           4.77         yes         0.00         yes           1.34         yes         0.01         yes           2.479         yes         0.11         yes           2.479         yes         0.11         yes           147         yes         0.01         yes           147         yes         0.02         yes	0.12	yes	0.15 y	yes	0.06 yes	QN	yes	QN	yes	0.14	yes	2.57 Level	l le	0.37 yes		0.00 yes		0.00 yes	0.02	32 yes	0.23	3 yes	QN	0.96	yes
1.34         yes         0.00         yes           1.34         yes         0.01         yes           2.479         yes         0.11         yes           2.479         yes         0.11         yes           147         yes         0.01         yes           147         yes         0.02         yes	0.05	yes		yes	0.02 yes	QN	80	QN	yes		yes	1.04 Level	ē	0.15 yes		0.00 yes		0.00 yes		J1 yes		sak 6	ND	1.40	yes
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1.34 yes 0.00 yes 1.34 yes 0.01 yes 0.01 yes 1.34 yes 0.01 yes 0.01 yes 1.34 yes 0.01 yes 0.0							SANGE S		shaft En	Asphalt Emulsions (water-based)	water-t	pased)	AKKEYAK.	Water Spring			\$26500 BX	2000	\$500000	SKINK	SHOW SHOW	State State State	WANTED STATE	NAME OF	38.00 N
1.34 yes 0.00 yes 1.34 yes 0.01 yes 1.34 yes 0.00 yes 1.34 yes 0.01 yes 1.34 yes 1.34 yes 0.01 yes 1.34 yes 1.34 yes 0.01 yes 1.34 yes 1.3	4.29E-04	yes	- 1	yes	0.00 yes	<u>N</u>	yes	S	yes	0.00	yes	0.01 ye	yes	0.00 yes		0.00 yes		0.00 yes	0:00	30 yes	00:00	0 yes	ND	0.00	yes
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1.34 yes 0.00 yes 1.34 yes 0.00 yes 1.34 yes 0.00 yes 0.0	4.29E-04	yes		yes	0.00 yes	2	yes	ΩN	yes		yes	0.01 ye	yes	0.00 yes		0.00 yes	_	0.00 yes	0.00	30 yes	00'0	0 yes	QN	0.00	sәќ
1.34 yes 0.00 yes 2.479 yes 0.11 yes 2.479 yes 0.11 yes 0.11 yes 1.47 yes 0.02 yes 1.47 yes 0.02 yes 1.47 yes 0.02 yes	4.29E-04	yes		yes	0.00 yes	Q	y88	Š	yes	- 1	yes	0.01 ye	yes	0.00 yes		0.00 yes		0.00 yes	_	30 yes	_	0 yes	S	0.00	yes
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1.34 yes   0.00 yes     2.479 yes   0.11 yes     7.40 yes   0.11 yes     1.47 yes   0.02 yes     1.47 yes   0.02 yes	4.29E-04	SŞ.	- 1	yes	- 1	2	ğ	Q	yes	- 1	yes		yes		_	0.00 yes		0.00 yes	_	- 1	4	o yes	S	0.00	- 1
2,479 yes 0.11 740 yes 0.11 147 yes 0.02	4.295-04	88	0.00	yes	0.00 yes	2	Ş		yes	80.	Se :	ᆰ	yes	0.00 yes	_	0.00 yes		0.00 yes	4	0.00 yes	0.00	0 yes	S	0.00	Ř
2,479 yes 0.11 2,479 yes 0.11 740 yes 0.11 147 yes 0.02								4	Aspnart E	Emulsions (mel-based)		ased)		10000000											
740 yes 0.11 740 yes 0.11 747 yes 0.02	26.64	2		žes		293.55	Ą	ç	yes	- 1	yes	1.42 Level	-	578.08 yes	$\downarrow$	0.00 yes	_	0.00 yes		0.01 yes	ᅱ	2 yes	Q.	88.77	ξķ
740 yes 0.11 147 yes 0.02 147 yes 0.02	26.64	õ	0.08	yes	0.03 yes	293.55	yes	Q	yes	20.67	yes	1.42 Level	-	578.08 yes		0.00 yes	_	0.00 yes		0.01 yes	193.22	2 yes	NO NO	88.77	8
740 yes 0.11 147 yes 0.02 147 yes 0.02						September 1			₹	Asphait Cutback	<b>back</b>	Section of the sectio		WESTERN.	X485588			96968	365 P.	\$1880E				September 1	
147 yes 0.02 147 yes 0.02		J Jave		yes	0.03 yes	Ω	yes	ΩN	yes	1.29	yes	1.43 Level	ēğ.	2.15 yes	Ц	0.00 yes		0.00 yes	_	0.01 yes	9,49	9 yes	4.98	10.87	Xes
147 yes 0.02		1 javar		yes	0.01 yes	ð	yes	NO	yes		yes		yes	2.37 yes		0.00 yes		0.00 yes	ss 0.00	00 yes		3 yes	14.31		XS.
	_	avet t		yes	0.01 yes	Q	yes	Ñ	yes	2.53	yes	0.28 ye	yes	2.37 yes	_	0.00 yes		0.00 yes	es 0.00	00 yes	15.63	3 yes	14.31	.,	SŞ.
595 yes	S 2.41 Level1	II BANG	0.08	yes	0.03 yes	2	88	S	yes		Ş	1.43 Level	igi	1.77 yes		0.00 yes		0.00 yes		0.01 yes		Ses yes	4.01		8
		; [eve]	- 1	yes	0.03 yes	₽	88	2	yes	1.05	Š	1.43 Level	اق	1.77 yes	_	0.00 yes		0.00 yes	0.01	yes Yes	7.65	Ses Ses	4.01	8.82	<u>8</u>

## Estimated Tank Emissions (lb/yr) (1)

## Estimated Biofilter Emissions (lb/yr) (2)

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ري	riteria Pol	lutants													Ha	zardous	Hazardous Air Pollutants	utants													
ofilter									Carbon	<u> </u>	Cyclo-			ă	Ethyl-	Ϋ́	-mald-	ļ	Ł	- SS	_	Methyle	lene	L	_	_		Trimethy!-	- Total	_	Ι
Q	700 V0C	BRC?	Acetone	BRC?	Benzene	BRC?	MEX	BRC?	BRC? Acetone BRC? Benzene BRC? MEK BRC? Disulfide BRC? hexane	RC?	exane	BRC?	DETA	BRC? DETA BRC? benzene BRC?	zene Bř	3C? et	hyde Bi	CC? He	ehyde BRC? Hexane BRC?	CS octane	e BRC?	Chlori	Chloride BRC? Styrene BRC? Toluene	Styrer	BRC BRC	72 Toluer	ar BRC	BRC? benzene Xylene	Xylen	BRC?	٥.
East Biofilt	999	yes	.0	yes	3 yes 0.2	0.2 yes	0.2	sek	.0	1 yes	0.0	sak	0.2	yes	0.3	yes 4	4 14	IPA	4 Linvid   0.06 yes   0.002 yes   0.002 yes   0.03 yes   0.44 yes	ა   ი.c	102 ye	s 0.	002 yes	0	03 yes	2	2.4 yes	0	1 0001	6 yes	13
West Biofil	3,177	X8	1.7	ž	1.0	level	12	yes	9.0	yes	0.0	, Se	0.0	yes	1.2 y	yes	77	e e	3.2 yes	L	0.010 yes	L	0.009 yes		0.17 yes	_	2.0 yes		0.0		_

Significant - Emission levels listed in IDAPA 58.01.01.006.92 that are considered significant.

EL: Emission Screening Limit for hazardous air pollutants listed in IDAPA 58.01.01.585 and 586. If estimated emissions are less than EL air dispersion modeling is not required.

BRC: Below Regulatory Concern (IDAPA 58.01.01.221 and 223.01). 10 % of Significant levels for criteria pollutants and 10% of EL for hazardous air pollutants

NA: Not Applicable

ND: Not determined/below detection.

(1) VOC emissions from storage banks estimated utilizing TANKS 4.0. Speciation of VOC emissions from asphalt storage banks (and asphalt cement portion of mixed products) estimated utilizing

emission factors contained in Table 11.1-16 of AP-42 Chapter 11.1. Speciation of emissions from fuels and fuel additives based on available speciation profiles and MSDS documents, where appropriate. (2) Biofilter emissions are composed of tank emissions routed to each filter. Shading is utilized on the table to denote which tanks are routed to which biofilter. No control efficiency is claimed

for permitting purposes. Emissions are not additive (that is, emissions are released either from the individual tank or the through the biofilter).

(3) Tanks 320-1 and 2320-1 are process tanks, not long-term storage tanks, emissions are not routed through biofiliers. Currently referred to as Tanks CT and WT, respectively.

(4) Emission factors listed in Table 11.1-16 of AP-42, Chapter 11.1 (for asphalt cement products only). To calculate emission rate, the emission factor is multiplied by the estimated total VOC rate that was estimated using TANKS 4.0. (5) Asphalt cement total xylene composition is 0.41% m-/p- xylenes and 0.08% o-xylene.

### APPENDIX C LOADING RACK EMISSION ESTIMATES



Idaho Asphalt Supply, Inc. Blackfoot, Idaho Facility

Product Loading Emissions Estimation (a)

			Average					
		Vapor	Liquid	Calculated				
	True Vapor	Molecutar	Temperature	TOC Emission	Volume			
Product	Pressure (P)	Weight (M)	ε	Factor (L <sub>L</sub> )	Transferred	Ĭ	TOC Emissions	
	(psi)	(əloш-ql/ql)	( <sup>%</sup> R)	(lb/1000 gal)	(gallons/yr)	(Ton/Year)	(lb/hr)	(s/b)
Asphalt Cement (AC) (b)	0.0092	105.00	789.67	0.02	22,187,146	2.5E-01	5.6E-02	7.1E-03
PMA (b)	0.0092	105.00	789.67	0.02	21,074,683	2.3E-01	5.3E-02	6.7E-03
Cationic Emulsion (w/ water) (c)	0.0092	105.00	659.67	0.01	26,313,742	1.4E-01	3.3E-02	4.1E-03
Cationic Emulsion (w/ fuel) (c)	NA	ΝA	NA	¥	2,518,352	9.2E-01	2.1E-01	2.6E-02
- AC component	0.0092	105.00	609.67	0.01	2,266,517	1.3E-02	3.1E-03	3.9E-04
- Naphtha component	7.31	80.00	29.609	7.17	251,835	9.0E-01	2.1E-01	2.6E-02
- Benzene Component	7.33	78.11	609.67	7.02	252	8.8E-04	2.0E-04	2.54E-05
Cutback (MC) (c)	NA	ΑN	NA	Ą	6,324,311	1.5E+00	3.5E-01	4.4E-02
- AC component	0.0092	105.00	739.67	0.01	4,806,476	2.3E-02	5.4E-03	6.8E-04
- Kerosene component	1.5	130.00	739.67	1.97	1,517,835	1.5E+00	3.4E-01	4.3E-02
- Benzene component	61.44	78.11	739.67	48.51	51	1.2E-03	2.8E-04	3.57E-05
				Total:	57,343,551	2.8	0.65	0.081

Notes: (a) Emissions from loading petroleum liquids estimated using the following equation:  $L_1 = 12.46 \times 10 \times 10^{-3}$ 

(source: AP-42 Chapter 5.2, equation 1)
(b) Overhead loading - splash fill, normal service (S=1.45 from Table 5.2.1 of AP-42 Chapter 5.2)
(c) Overhead loading - submerged fill, normal service (S=0.6 from Table 5.2.1 of AP-42 Chapter 5.2)

## Summary of Emissions from Loading Racks

	70C	Benzene	Benzene	BRC?
Loading Rack	(s/b)	(s/b)	(lb/hr)	
#8 (30% of Emulsion Loads)	9.1E-03	7.62E-06	6.05E-05	yes
#5 and #6 (70% of Emulsion Loads)	2.1E-02	1.78E-05	1.41E-04	Level
#1 (AC loads)	7.1E-03	2	Q	yes
#2 (30% of PMA Loads)	2.0E-03	S	Q	yes
#4 (70% of PMA Loads)	4.7E-03	ΩN	Q	yes
#3 (100% of Cutback Loads)	4.4E-02	3.57E-05	2.84E-04	Level !

Note: The listed loading rack/tank scenarios are typical but routinely

vary according to loading schedules, etc.

#### **APPENDIX D**

### FUGIVITVE DUST EMISSIONS FROM VEHICLE TRAVEL ON UNPAVED ROADS



# PM10 Emissions from Unpaved Roadways at the Facility <sup>a</sup>

PM10 missions	 ( <u>a</u> )	1,331	1,478	1,320	673	2,462	7.264
ns Emi		1.3	1.3	1.3	1.3	1.3	
	(lb/mile)						Total:
Average Vehicle Speed (S) E	(mph)	5	5	5	5	5	
<sub>B</sub> d	(days)	8	8	8	8	06	
Dry Moisture Content <sup>f</sup>	(%)	0.2	0.2	0.2	0.2	0.5	
Vehicle Weight	(tons)	35.9	35.9	35.9	35.9	35.9	
Silt Content (s) °	(%)	8.5	8.5	8.5	8.5	8.5	
S		0.3	0.3	0.3	0.3	0.3	
q		9.0	9.0	0.4	0.4	0.4	
a		0.8	0.8	0.8	0.8	0.8	
<b>~</b>	(lb/mile)	2.6	2.6	2.6	2.6	2.6	
Trucks/ Distance/	(mile/yr)	366	1,105	286	203	1,841	
Trucks/ year °		1,827 2,875	2,712	3,673	1,263	4,561	
Travel Trucks Distance byear c	(#)	1,827	2,152	1,419	2,105	2,131	
Product Transported		AC	PMA	Emulsions	Cutback	Inventory	

#### Notes:

a.) PM10 emissions from unpaved roads at the facility were estimated using equation 2 of AP-42 Ch. 13.2.2. (E=(k(s/12)<sup>3</sup>(W/3)<sup>b</sup>)/(M<sub>dry</sub>/0.2)<sup>o</sup>\*((365-p)/365)(S/15)

b.) Travel distance is average of typical travel routes.

c.) Calculated by dividing total product throughput by truck capacity of 33.5 tons and assuming 1% of trucks require return trips.

d.) The empirical constances k, a, b, and c were from Table 13.2.2-2 of AP-42.

e.) Typical silt content of unpaved road surfaces at the facility from Table 13.2.2-1 of AP-42, mean value for a scraper route at a construction site.

f.) Moisture content of surface material under dry uncontrolled conditions (conservatively assumed equal to 0.2%)

g.) Number of days with 0.01 inch or more of precipitation (p) from Figure 13.2.2.1 of AP-42.

### APPENDIX E AIR DISPERSION MODEL GRAPHICAL OUTPUT

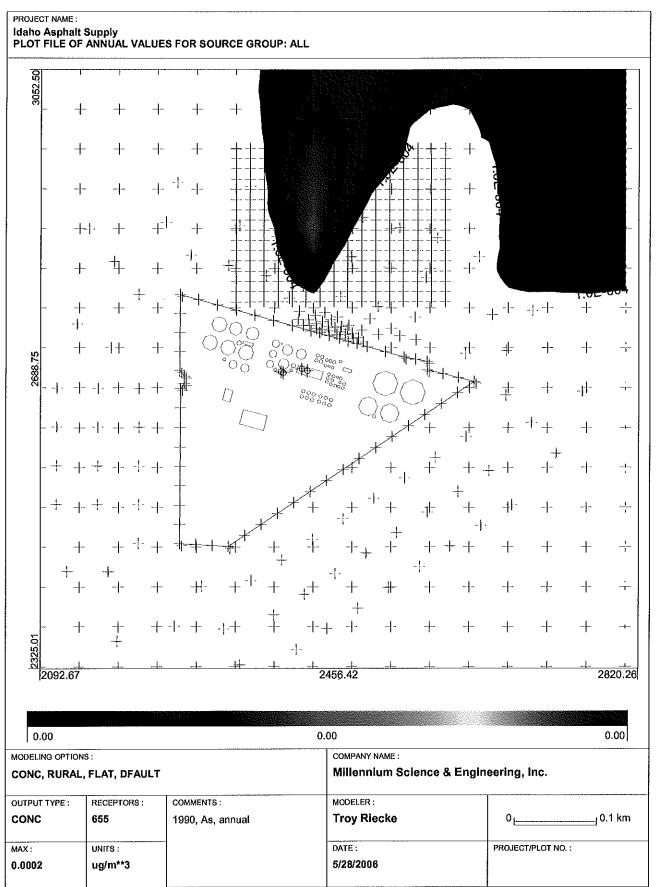


Idaho Asphalt Supply, Inc. Blackfoot, Idaho Facility

PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL + ÷ -i-÷ 2820.26 2092.67 0.00 0.00 0.00 MODELING OPTIONS: COMPANY NAME: CONC, RURAL, FLAT, DFAULT Millennium Science & Engineering, Inc. RECEPTORS: COMMENTS: MODELER: OUTPUT TYPE: \_\_0.1 km CONC 655 **Troy Riecke** 1987, As, annual MAX: UNITS: DATE: PROJECT/PLOT NO.: 0.00021 ug/m\*\*3 5/28/2006

PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL -1-1--11-----------|-2092.67 2456.42 2820.26 0.00 0.00 0.00 MODELING OPTIONS: COMPANY NAME : Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: COMMENTS: OUTPUT TYPE: RECEPTORS: CONC 655 **Troy Riecke** ⊒ 0.1 km 1988, As, annual DATE: PROJECT/PLOT NO. : MAX: UNITS: 0.00023 ug/m\*\*3 5/28/2006

PROJECT NAME: idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 -----------2092.67 2820.26 0.00 0.00 0.00 MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT OUTPUT TYPE : RECEPTORS: COMMENTS: MODELER: CONC 655 1989, As, annual **Troy Riecke** <sub>⊣</sub>0.1 km MAX: UNITS: DATE: PROJECT/PLOT NO.: 5/28/2006 0.00016 ug/m\*\*3



PROJECT NAME : Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL +1 -|-------~-1--+ 2325.01 -[--2820.26 2092.67 2456.42 0.00 0.00 0.00 MODELING OPTIONS: COMPANY NAME: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: CONC 655 **Troy Riecke** <sub>-</sub>10.1 km 1991, As, annual DATE: PROJECT/PLOT NO.: MAX: UNITS: 0.00022 5/28/2006 ug/m\*\*3

PROJECT NAME: Idaho Asphait Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL + -|-+ 41 ------+  $\div$ ---+-11------- |---+ + + - | -2456.42 2820.26 2092.67 0.06 0.10 0.02 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: CONC 655 **Troy Riecke** <sub>-</sub>| 0.1 km 1987, benzene, bubbled MAX: UNITS: DATE: PROJECT/PLOT NO.: 5/28/2006 0.09206 ug/m\*\*3

PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 -------+ ----÷ -1-+ -1-2325.01 - | -2820.26 2092.67 0.10 0.06 0.02 COMPANY NAME : MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE : RECEPTORS: COMMENTS: CONC 655 Troy Riecke ⊣0.1 km 1988, benzene,bubbled DATE: PROJECT/PLOT NO.: UNITS: MAX: ug/m\*\*3 6/4/2006 0.11046

PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 --+ 4-+ $\div$ ÷ -11-\*\*\* ...1------+ -|--|-2092.67 2456.42 2820.26 0.02 0.06 0.08 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT OUTPUT TYPE: RECEPTORS: COMMENTS: MODELER: CONC 655 **Troy Riecke** \_ 0.1 km 1989, benzene, bubbled MAX: UNITS: DATE: PROJECT/PLOT NO.: 5/28/2006 0.08493 ug/m\*\*3

PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 --إ--+ ÷ +÷ 2325.01 2820.26 2092.67 2456.42 0.06 0.08 0.02 COMPANY NAME : MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: **Troy Riecke** <sub>4</sub>0.1 km CONC 655 1990, benzene, bubbled DATE: PROJECT/PLOT NO.: MAX: UNITS: ug/m\*\*3 5/28/2006 0.09054

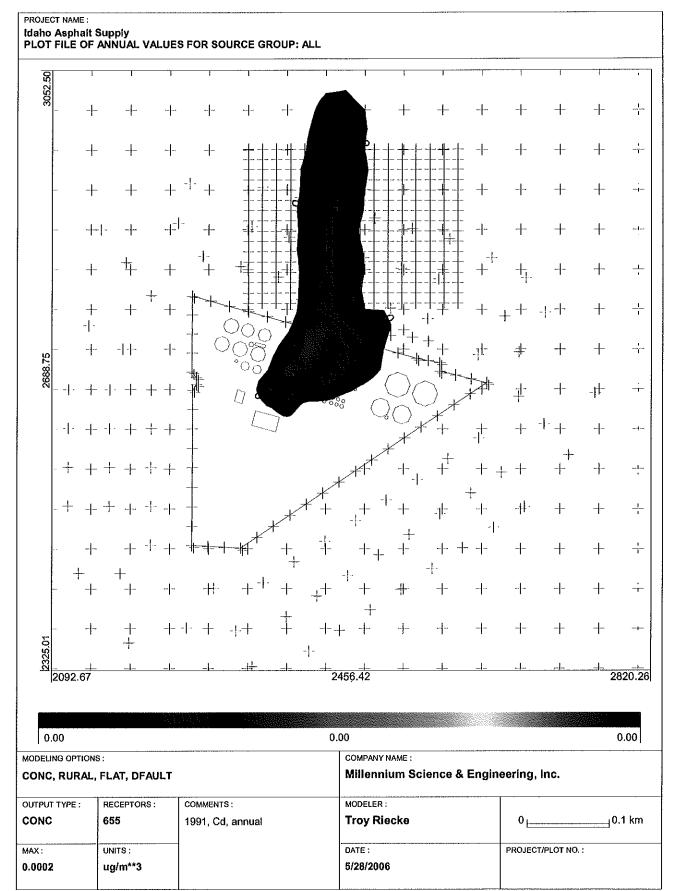
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PROJECT NAME : Idaho Asphalt Supply
PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL ++ +  $\stackrel{\cdot}{+}$ -----------+ \_ţt -|-+ 2325.01 - . 2820.26 2092.67 0.00 0.00 0.00 COMPANY NAME : MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT COMMENTS: MODELER: OUTPUT TYPE: RECEPTORS: CONC 655 1987, Cd, Annual Troy Riecke \_10.1 km MAX: UNITS: DATE: PROJECT/PLOT NO. : 5/28/2006 0.0002 ug/m\*\*3

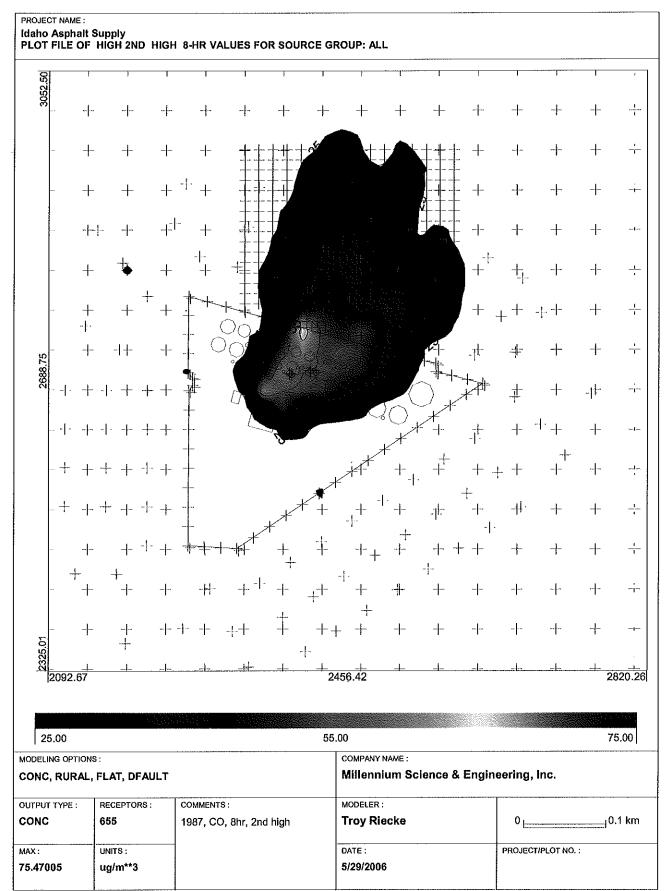
PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL --+ + ----------+ -#-++ 2325.01 - | -2092.67 2456.42 2820.26 0.00 0.00 0.00 MODELING OPTIONS: COMPANY NAME: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT OUTPUT TYPE: RECEPTORS: COMMENTS: MODELER: \_ 0.1 km CONC 655 **Troy Riecke** 1988, Cd, annual DATE: MAX: UNITS: PROJECT/PLOT NO. : 0.00025 ug/m\*\*3 5/28/2006

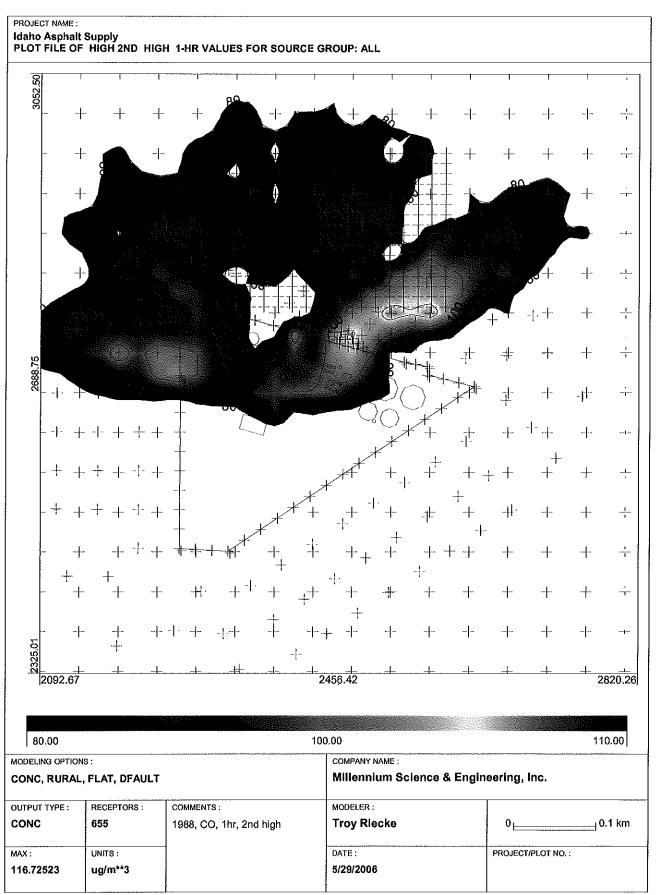
PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 + -----**-**∤--+ ÷ ÷ ~4.-------2820.26 2092.67 0.00 0.00 0.00 MODELING OPTIONS: COMPANY NAME: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT OUTPUT TYPE: RECEPTORS: COMMENTS: MODELER: CONC 655 1989, Cd, annual **Troy Riecke** <sub>-</sub>|0.1 km MAX: UNITS: DATE: PROJECT/PLOT NO. : 0.00019 5/28/2006 ug/m\*\*3

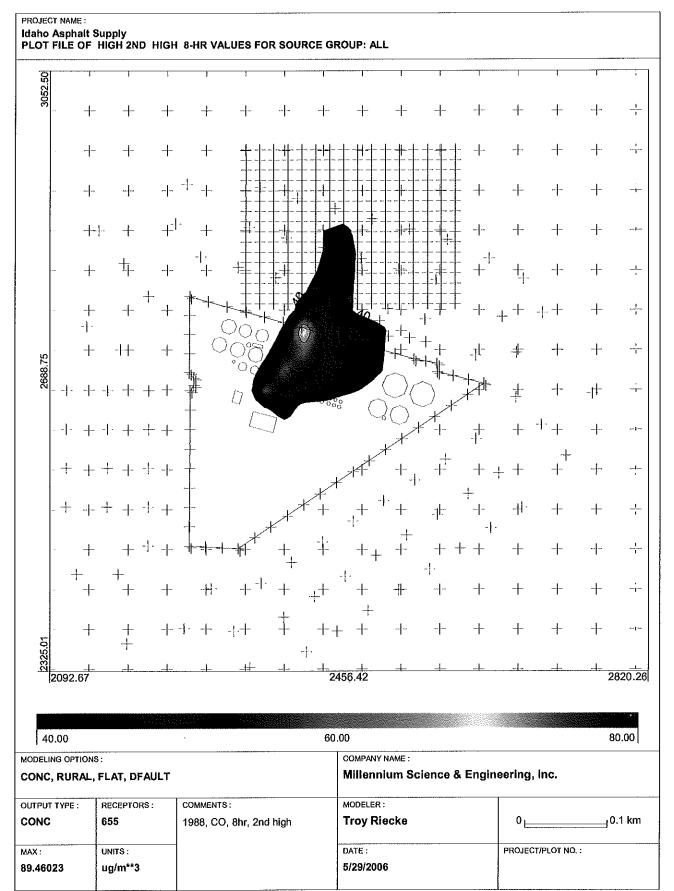
PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 ++ + -|-|-+-1--i-+ + -#-------+ + + -------r-2820.26 2092.67 2456.42 0.00 0.00 0.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: COMMENTS: OUTPUT TYPE: RECEPTORS: \_\_ 0.1 km **Troy Riecke** CONC 655 1990, Cd, annual DATE: MAX: UNITS: PROJECT/PLOT NO.: 0.00021 5/28/2006 ug/m\*\*3



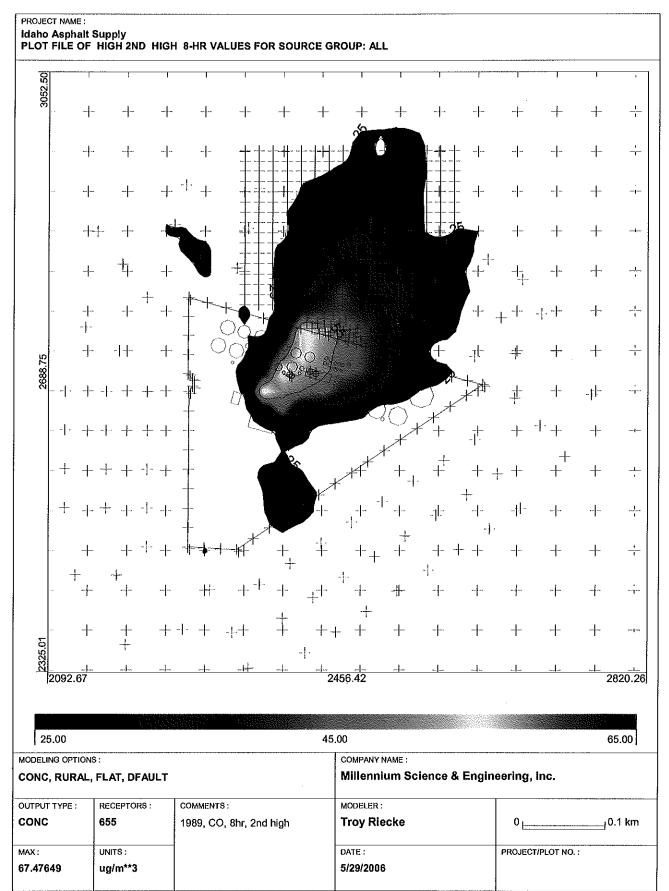
PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF HIGH 2ND HIGH 1-HR VALUES FOR SOURCE GROUP: ALL ÷ + ---+---|-- $\frac{1}{1}$ -|-2092.67 2456.42 2820.26 110.00 100.00 80.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: **Troy Riecke** \_ 0.1 km CONC 655 1987, CO, 1hr, 2nd high PROJECT/PLOT NO. : MAX: UNITS: DATE: 117.46591 ug/m\*\*3 5/29/2006

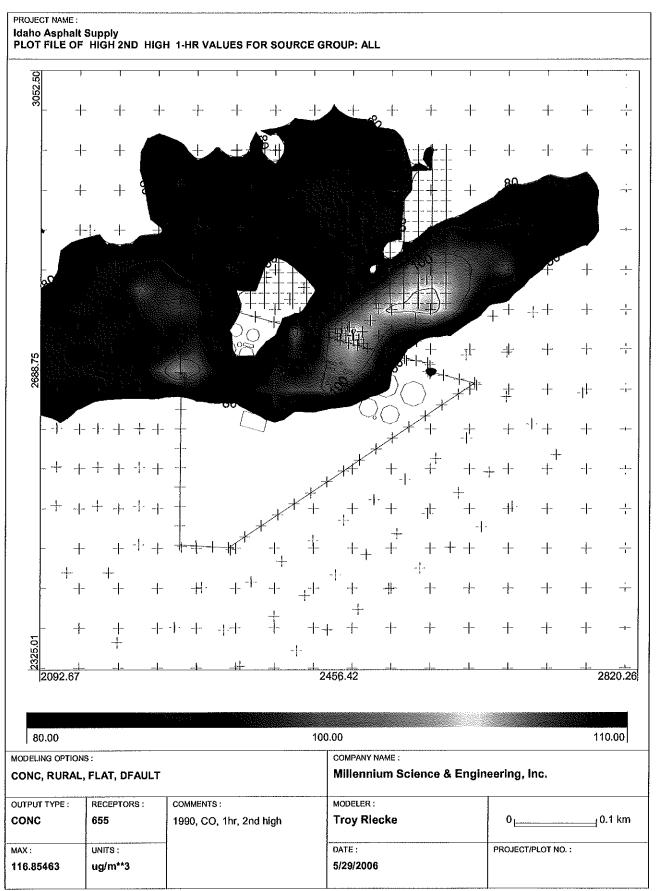


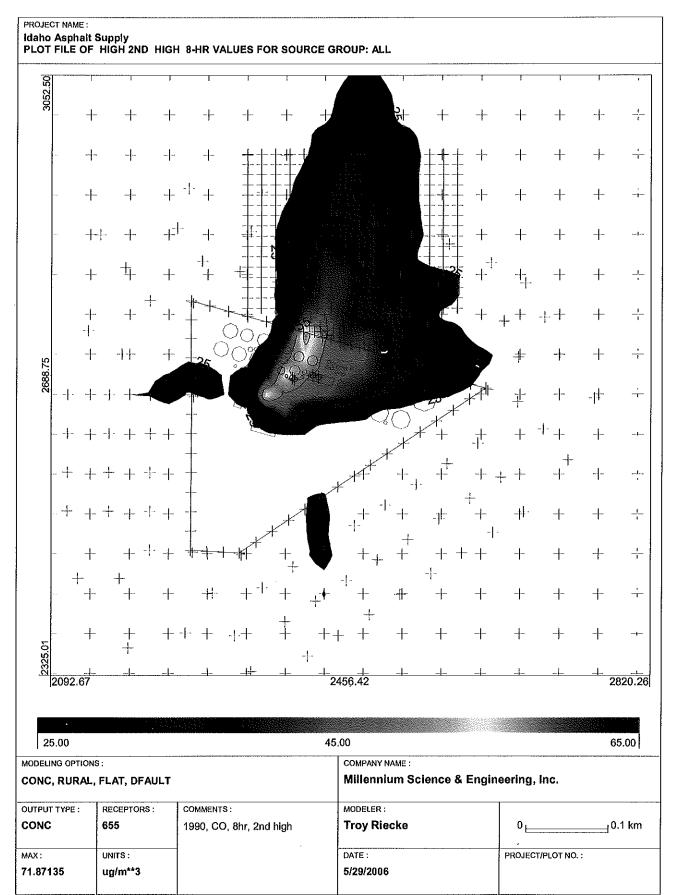




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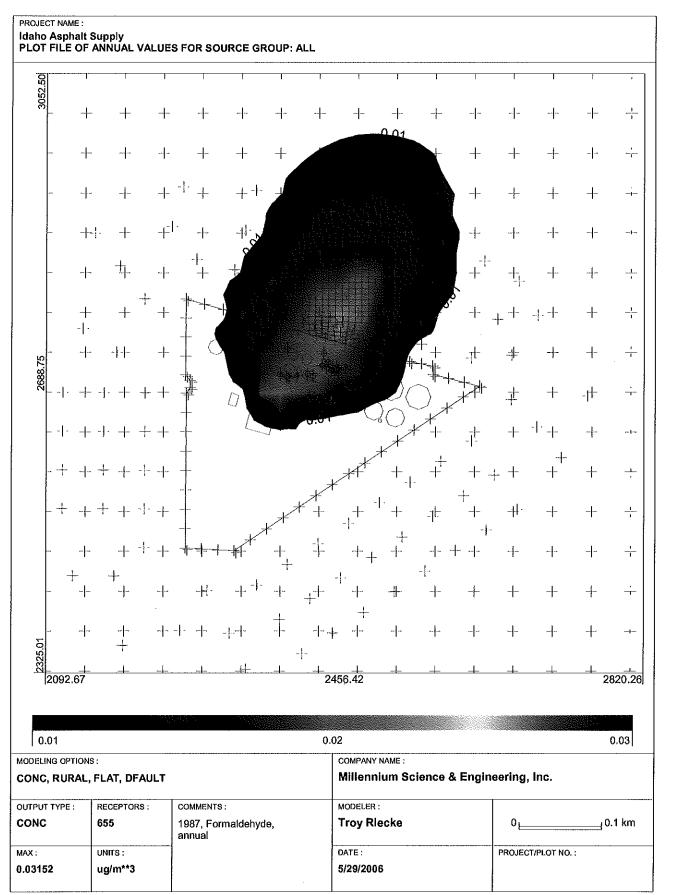


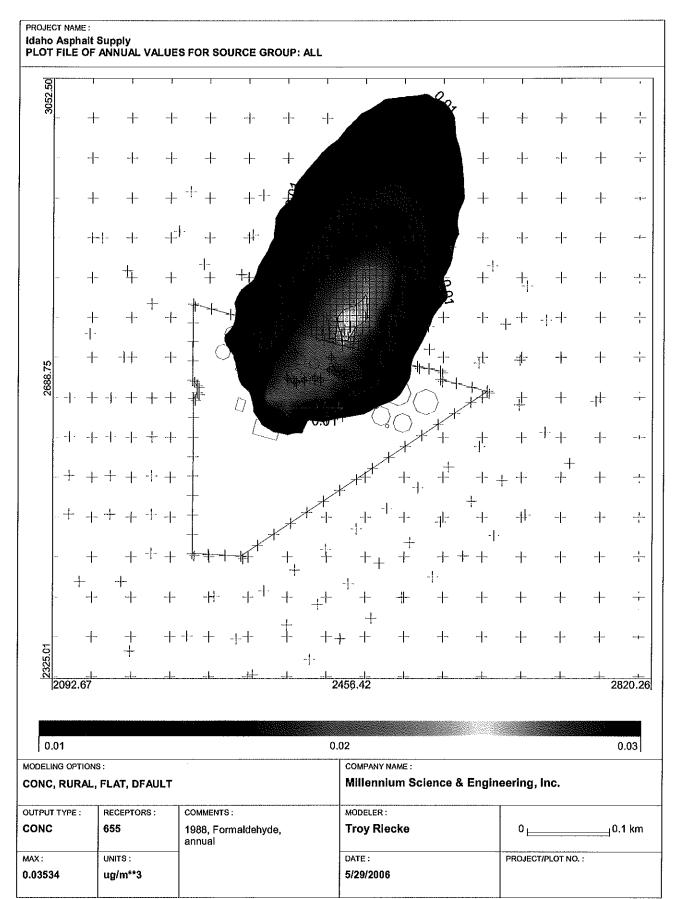




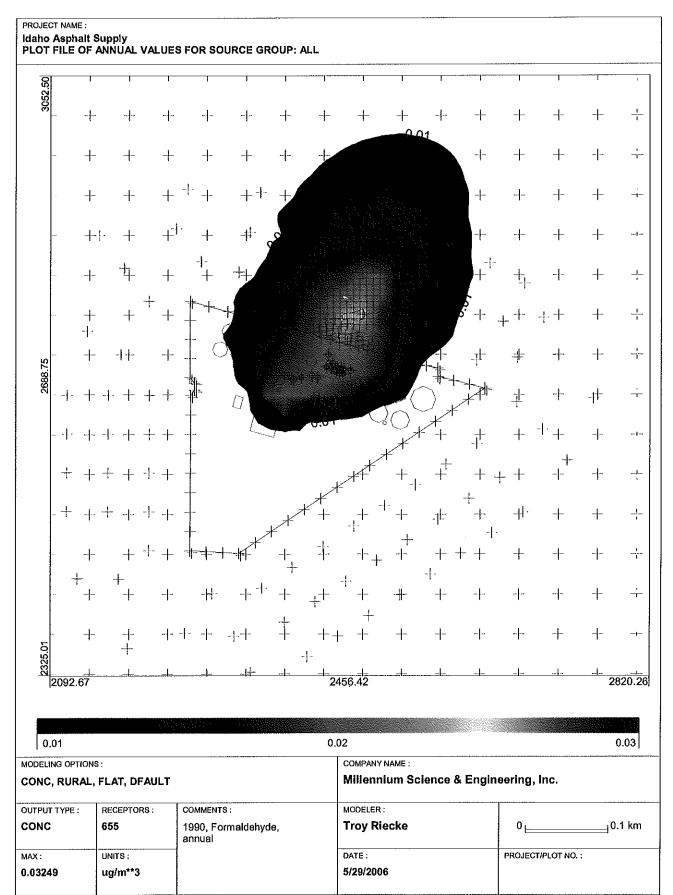
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PROJECT NAME : Idaho Asphalt Supply
PLOT FILE OF HIGH 2ND HIGH 8-HR VALUES FOR SOURCE GROUP: ALL + ÷ ÷ -|-2820.26 2456.42 2092.67 75.00 55.00 25.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT RECEPTORS: COMMENTS: MODELER: OUTPUT TYPE: **Troy Riecke** \_į0.1 km CONC 655 1991, CO, 8hr, 2nd high DATE: PROJECT/PLOT NO.: MAX: UNITS: 5/29/2006 79.19275 ug/m\*\*3

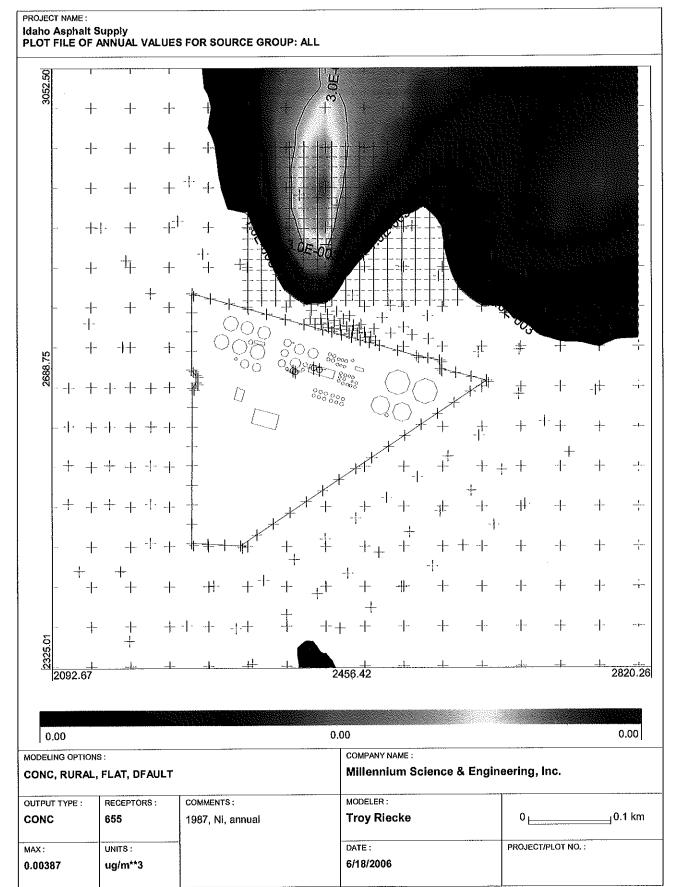


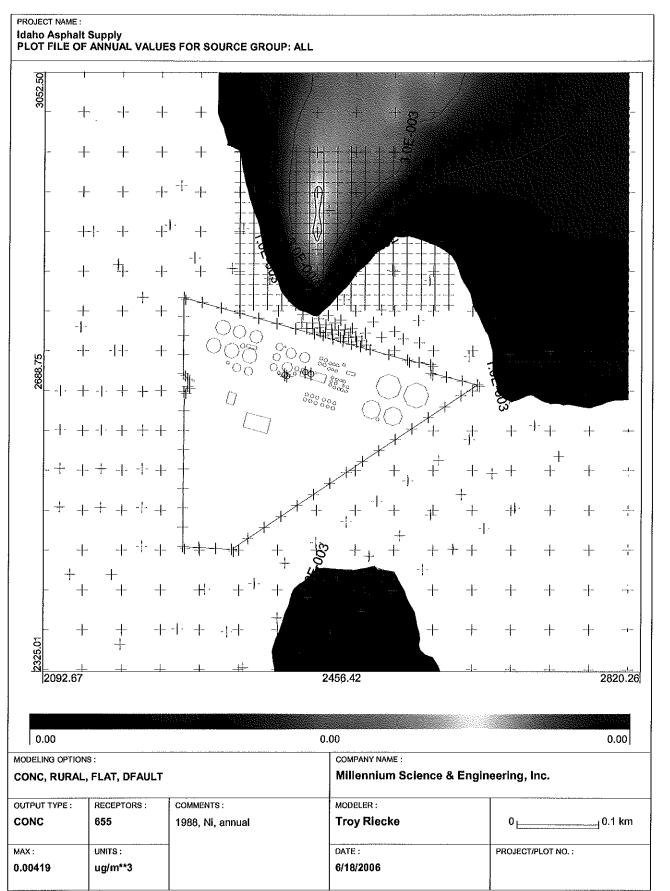


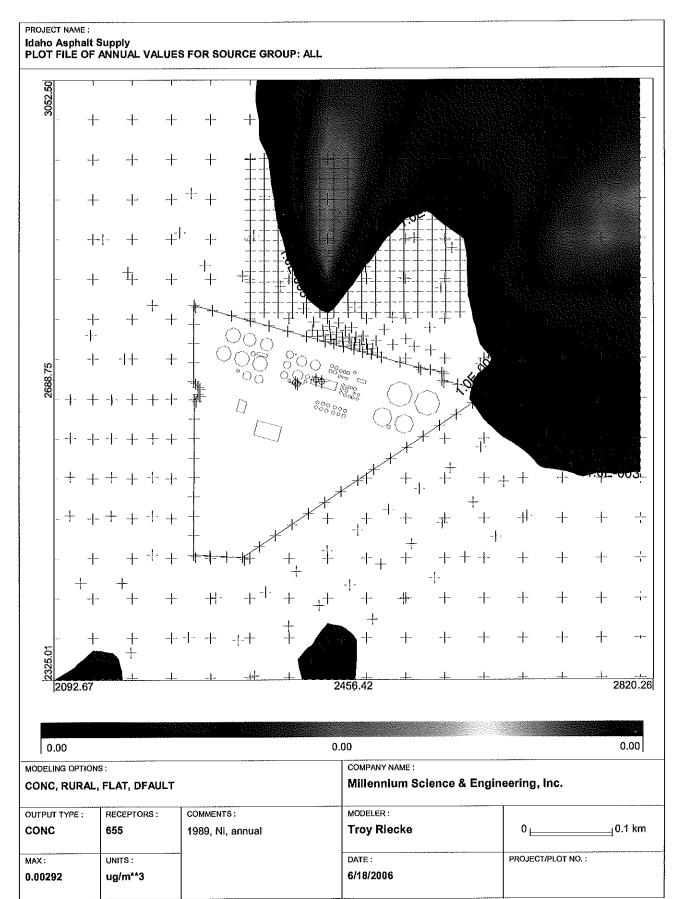
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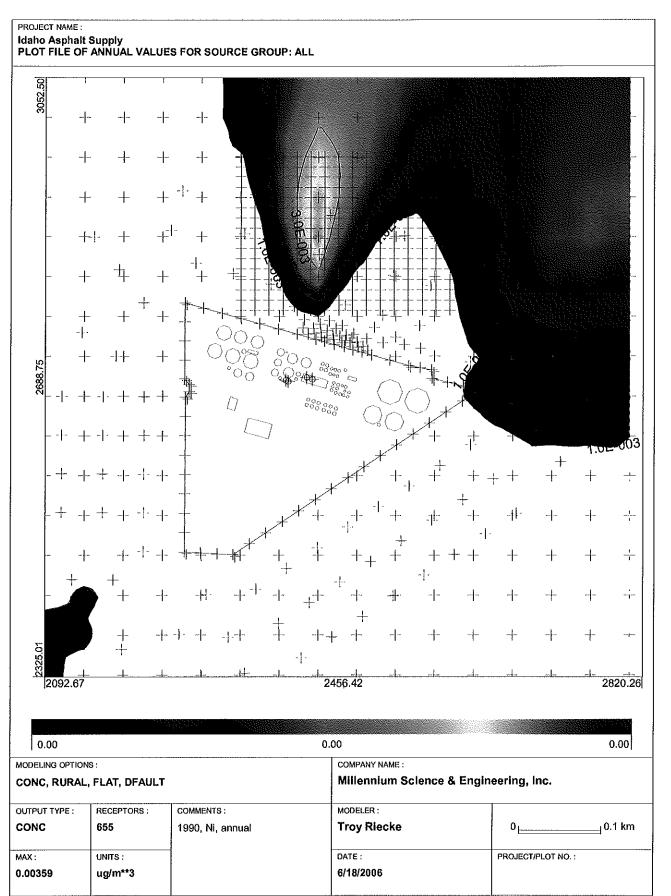


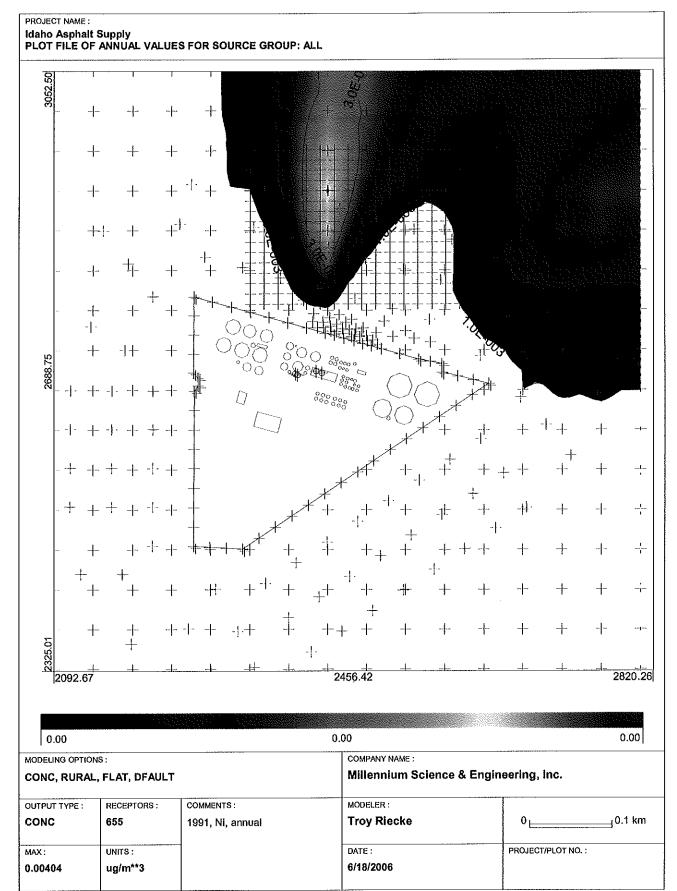
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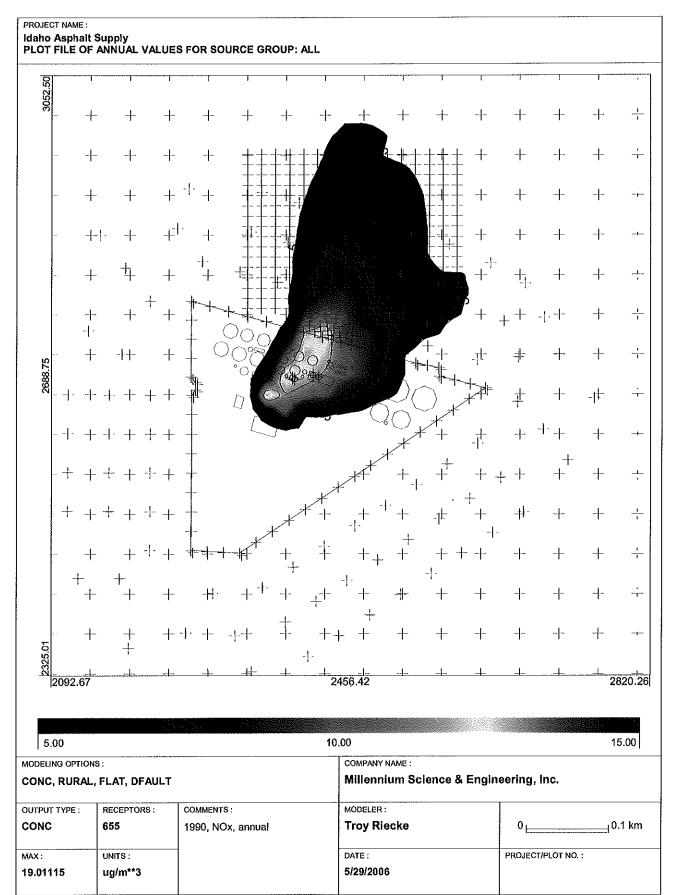


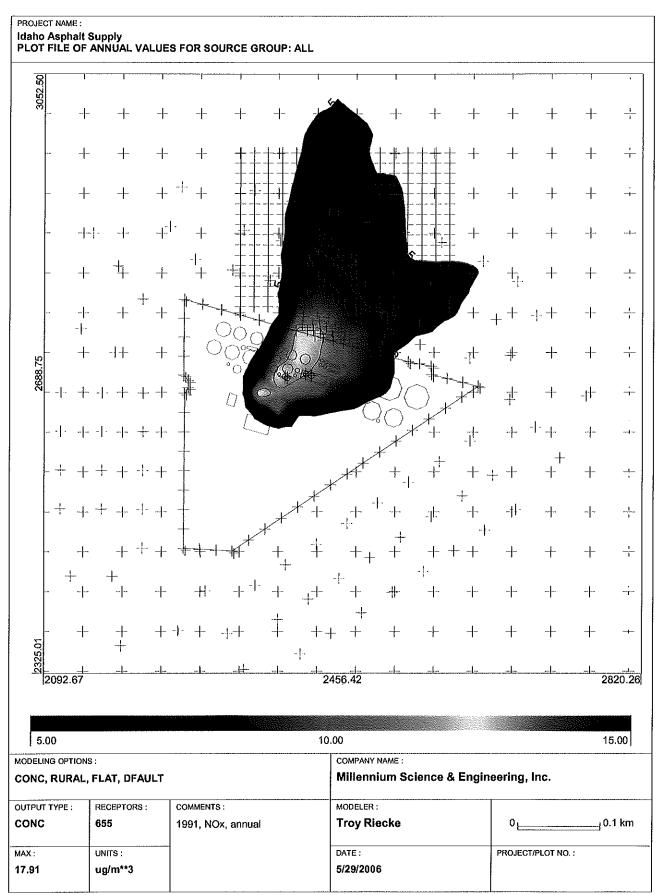


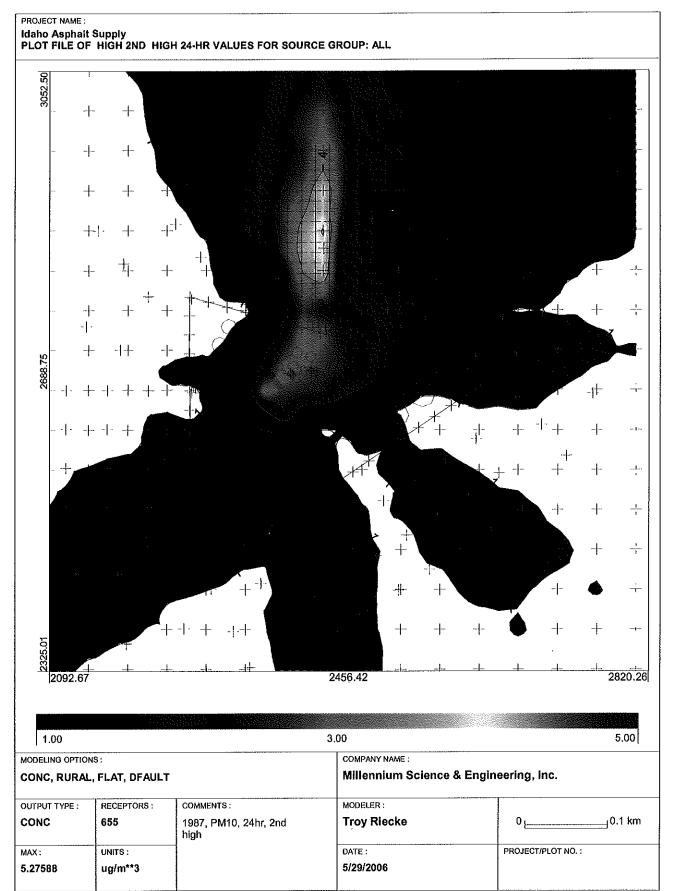
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PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 + +4-1------1---<u>-</u>i-++ -†+ -----÷ -|-2325.01 - | -2820.26 2092.67 2456.42 5.00 10.00 15.00 MODELING OPTIONS: COMPANY NAME: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT COMMENTS: RECEPTORS: MODELER: OUTPUT TYPE: \_\_i 0.1 km CONC 655 **Troy Riecke** 1987, NOx, annual DATE: PROJECT/PLOT NO.: MAX: UNITS: 17.73634 ug/m\*\*3 5/29/2006

PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL + + ------------2820.26 2092.67 20.00 15.00 5.00 MODELING OPTIONS: COMPANY NAME : Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE : RECEPTORS: COMMENTS: CONC 655 Troy Riecke \_|0.1 km 1988, NOx, annual DATE: PROJECT/PLOT NO.: UNITS: MAX: 5/29/2006 22.24688 ug/m\*\*3

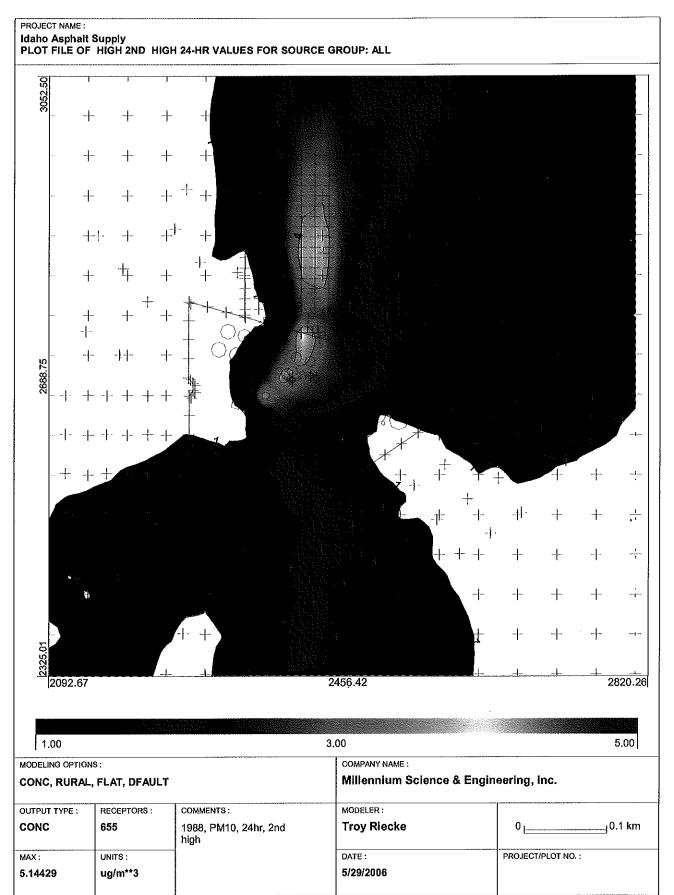
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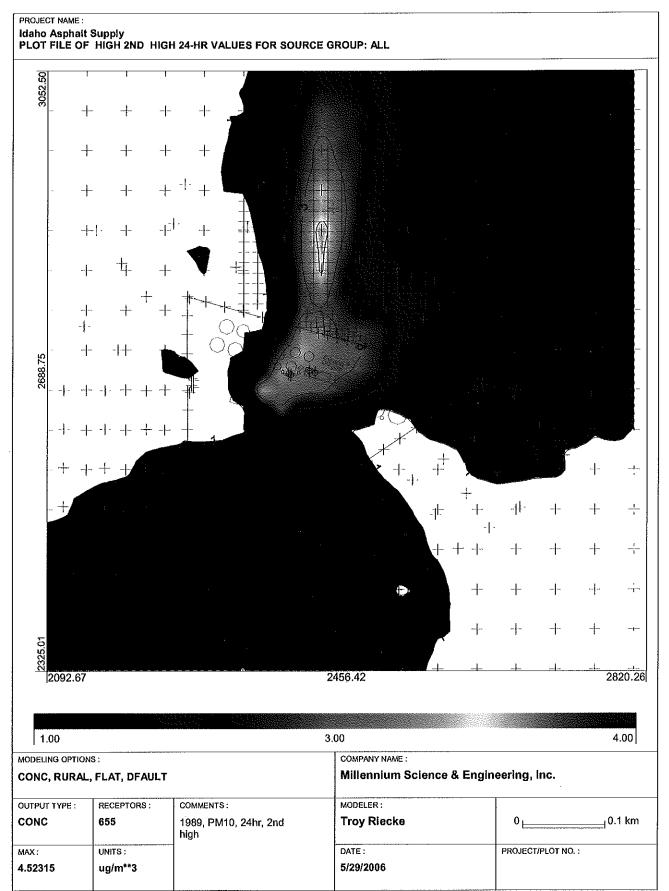




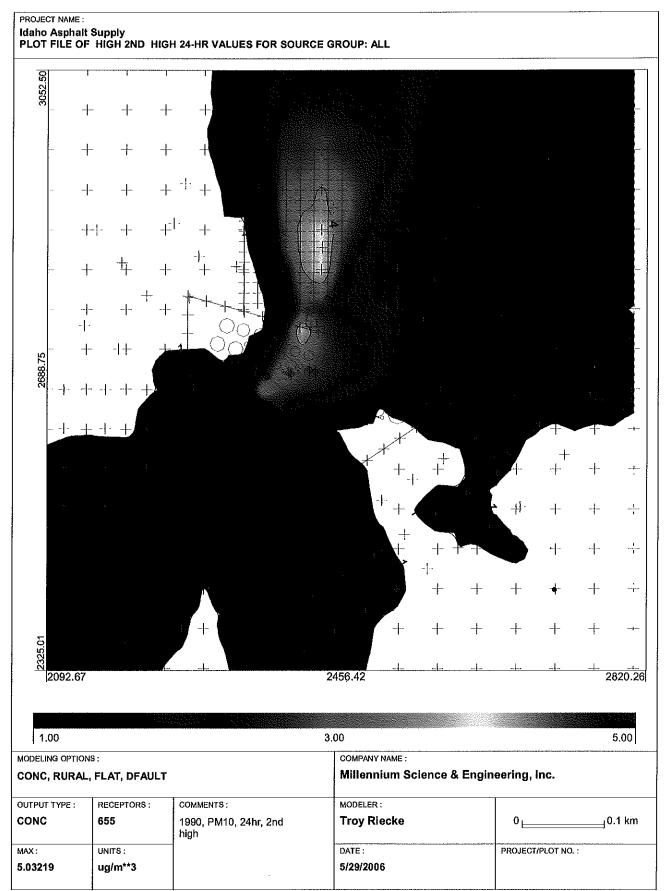
PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL + -|-+ -|--|-~-------|---<u></u>;---|---75 000000 -#-+ ++-1--2820.26 2092.67 2456.42 1.25 1.25 1.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: RECEPTORS: COMMENTS: OUTPUT TYPE: \_ 0.1 km CONC **Troy Riecke** 655 1987, PM10, annual DATE: MAX: UNITS: PROJECT/PLOT NO. : 1.348 ug/m\*\*3 5/29/2006



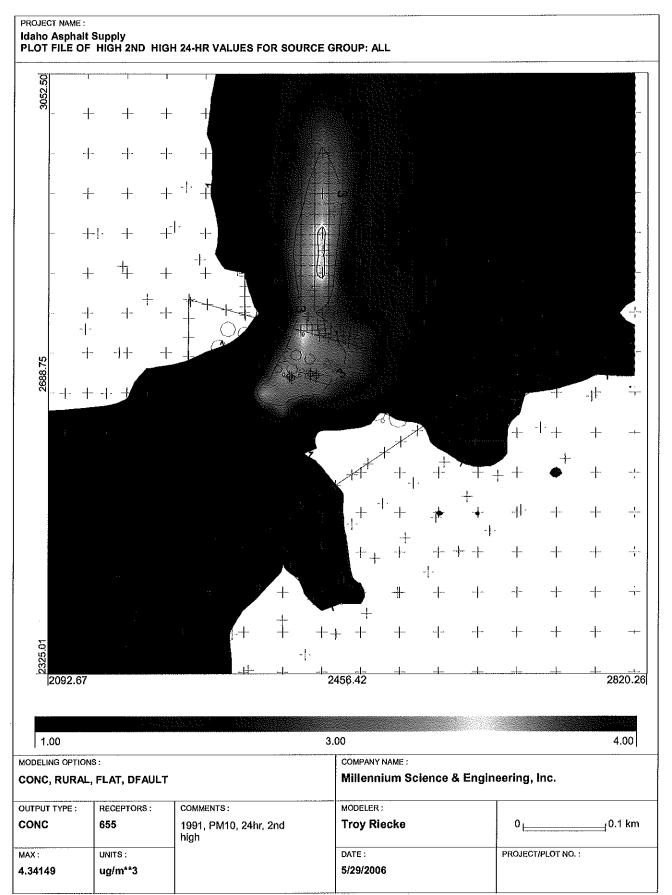
PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 1 + --------#------------+++ -|-2456.42 2820.26 2092.67 1.50 1.50 1.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: \_ 0.1 km CONC 655 **Troy Riecke** 1988, PM10, annual MAX: UNITS DATE: PROJECT/PLOT NO. : 5/29/2006 ug/m\*\*3 1.69226



PROJECT NAME: Idaho Asphait Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 ----+  $\dotplus$ + ----000 000 -14-+--!--++ ---1--2820.26 2092.67 2456.42 1.25 1.25 1.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: COMMENTS: OUTPUT TYPE: RECEPTORS: 655 **Troy Riecke** <sub>-|</sub> 0.1 km CONC 1989, PM10, annual PROJECT/PLOT NO. : DATE: MAX: UNITS: ug/m\*\*3 5/29/2006 1.32104



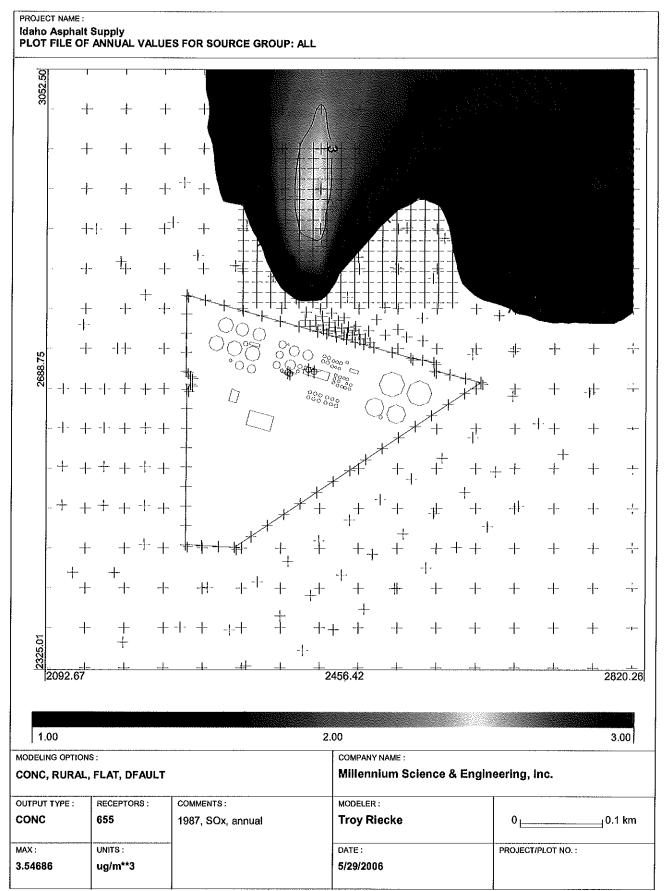
PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL 3052.50 ++ -|----÷ ----1----|-+  $\pm$ +-|-2456.42 2820.26 2092.67 1.25 1.25 1.00 COMPANY NAME : MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: CONC 655 1987, PM10, annual **Troy Riecke** 40.1 km MAX: UNITS: DATE: PROJECT/PLOT NO.: 5/29/2006 1.44489 ug/m\*\*3



PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP; ALL 3052.50 ++ + +1 --·---<del>-</del> ----|-000 000 --++ + +- | -2092.67 2820.26 2456.42 1.25 1.25 1.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT COMMENTS: MODELER: RECEPTORS: OUTPUT TYPE: CONC **Troy Riecke** \_ 0.1 km 655 1991, PM10, annual DATE: PROJECT/PLOT NO.: MAX: UNITS: ug/m\*\*3 5/29/2006 1.36114

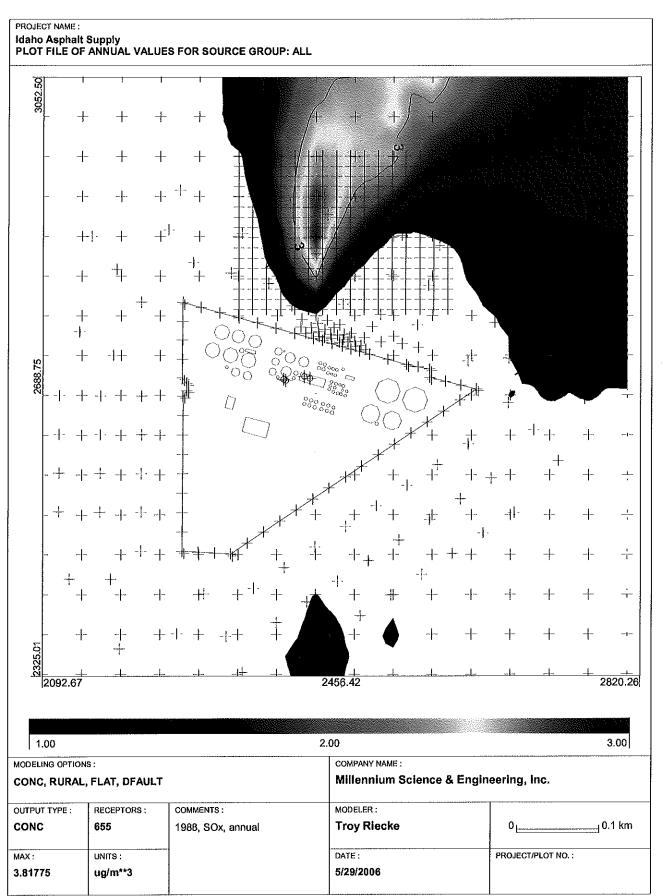
PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF HIGH 2ND HIGH 3-HR VALUES FOR SOURCE GROUP: ALL 3052.50 ...ļ... -<u>i</u>-+ + 2092.67 2456.42 2820.26 50.00 70.00 80.00 MODELING OPTIONS: COMPANY NAME: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT COMMENTS: OUTPUT TYPE: RECEPTORS: MODELER: CONC 655 1987, SOx, 3hr, 2nd high **Troy Riecke** <sub>4</sub>0.1 km MAX: UNITS: DATE: PROJECT/PLOT NO. : 80.9595 ug/m\*\*3 5/29/2006

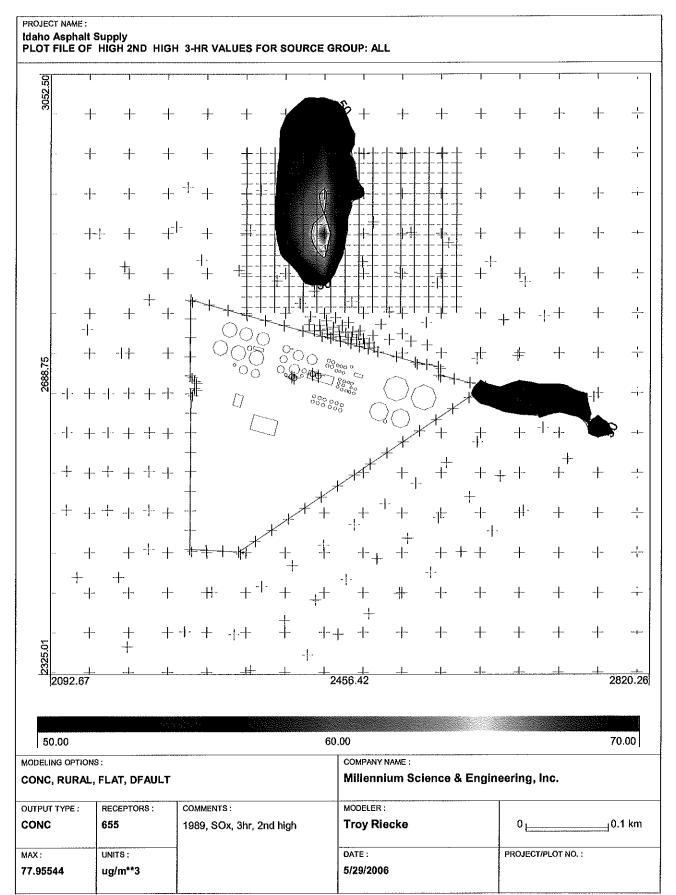
PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF HIGH 2ND HIGH 24-HR VALUES FOR SOURCE GROUP: ALL + + + +-1-+ ----2688.75 -H---**!**--+ +  $\div$ ---+-- | -2092.67 2456.42 2820.26 20.00 30.00 40.00 MODELING OPTIONS: COMPANY NAME: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: COMMENTS: OUTPUT TYPE: RECEPTORS: CONC **Troy Riecke** \_ 0.1 km 655 1987, SOx, 24hr, 2nd high DATE: MAX: UNITS: PROJECT/PLOT NO. : 42.56276 ug/m\*\*3 5/29/2006



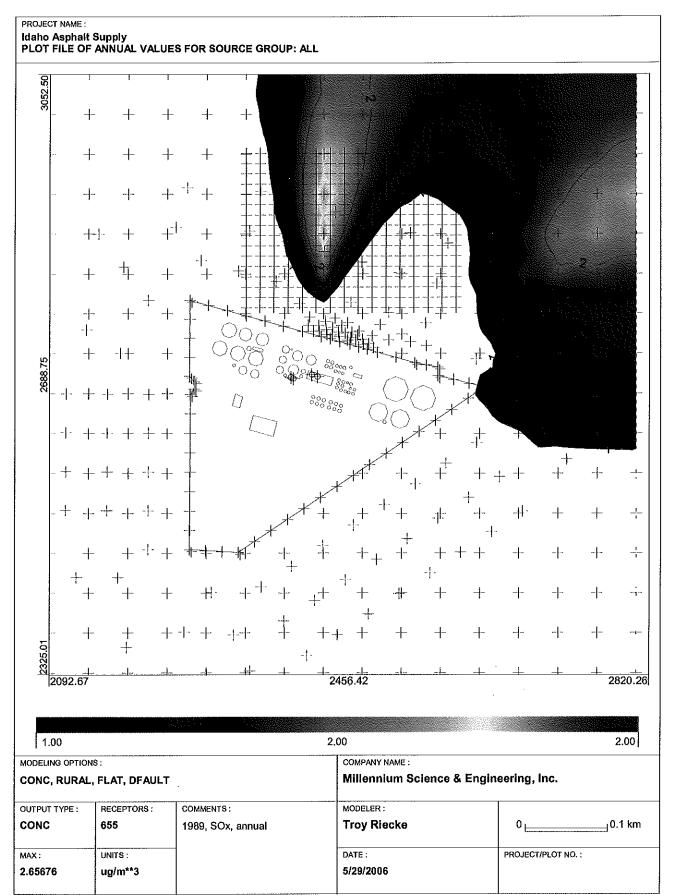
PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF HIGH 2ND HIGH 3-HR VALUES FOR SOURCE GROUP: ALL ÷ + +-.... + -+ + --+--1--+ 2325.01 2456.42 2820.26 2092.67 70.00 80.00 50.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: <sub>→</sub>0.1 km CONC 655 **Troy Riecke** 1988, SOx, 3hr, 2nd high MAX: UNITS: DATE: PROJECT/PLOT NO. : ug/m\*\*3 5/29/2006 87.70512

PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF HIGH 2ND HIGH 24-HR VALUES FOR SOURCE GROUP: ALL ÷ ·-- I ---<u>-</u>;-+ -i-------<del>-i</del>-+ 2456.42 2092.67 2820.26 20.00 30.00 40.00 MODELING OPTIONS: COMPANY NAME: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT OUTPUT TYPE: RECEPTORS: COMMENTS: MODELER: CONC 655 1988, SOx, 24hr, 2nd **Troy Riecke** ⊣ 0.1 km hlgh MAX: UNITS: DATE: PROJECT/PLOT NO.: 43.93968 5/29/2006 ug/m\*\*3



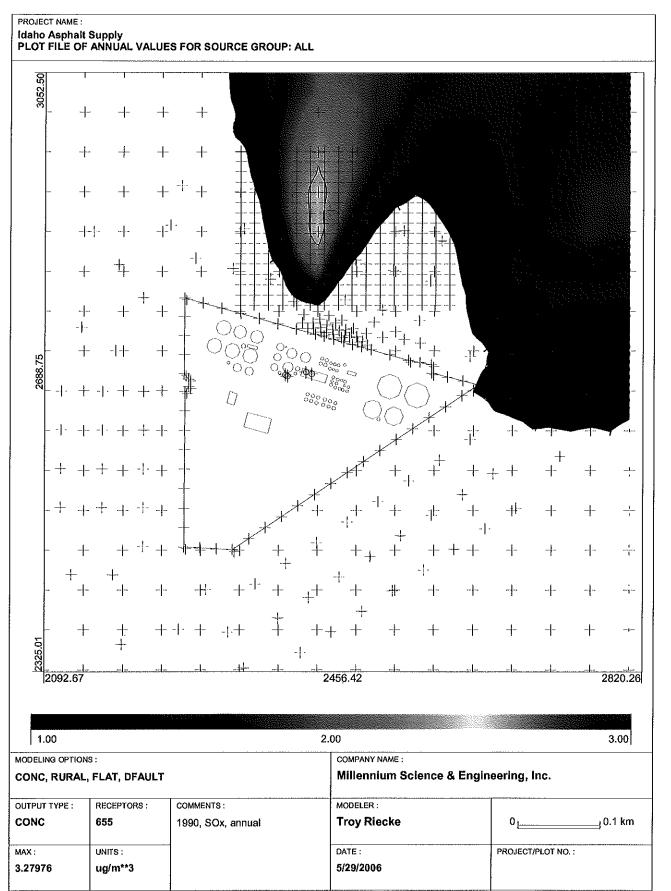


PROJECT NAME: Idaho Asphalt Supply PLOT FILE OF HIGH 2ND HIGH 24-HR VALUES FOR SOURCE GROUP: ALL 3052.50 ++ -+-÷ -------+ -11-+  $\div$ + -|-2092.67 2456.42 2820.26 30.00 30.00 20.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT COMMENTS: MODELER: OUTPUT TYPE : RECEPTORS: <sub>∃</sub> 0.1 km CONC 655 **Troy Rlecke** 1989, SOx, 24hr, 2nd high PROJECT/PLOT NO. : DATE: MAX: UNITS: ug/m\*\*3 38.80025 5/29/2006



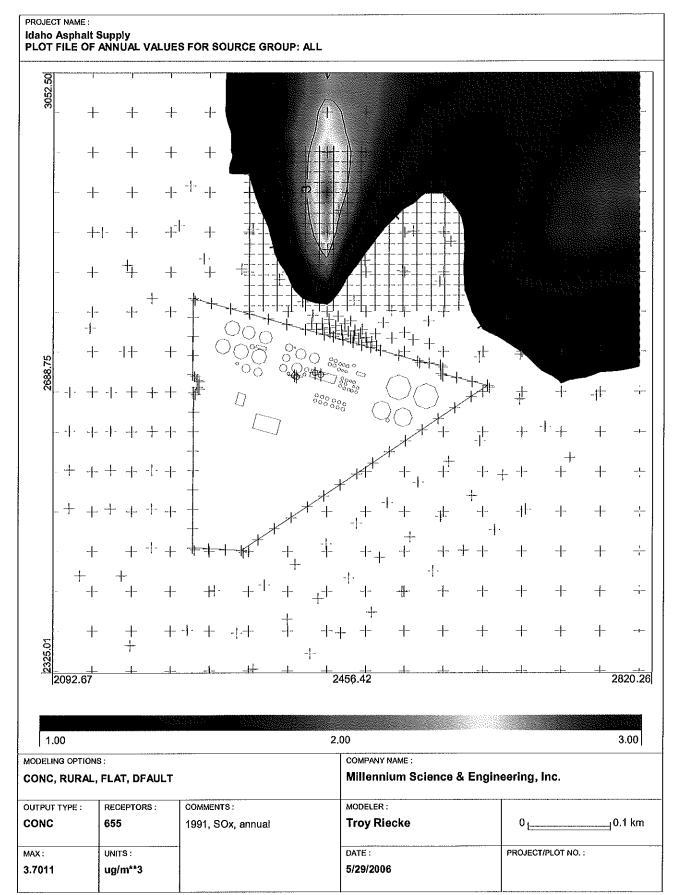
PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF HIGH 2ND HIGH 3-HR VALUES FOR SOURCE GROUP: ALL +-+ + + + + + + -|-2092.67 2456.42 2820.26 70.00 80.00 50.00 COMPANY NAME: MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: \_\_ 0.1 km CONC 655 **Troy Riecke** 1990, SOx, 3hr, 2nd high MAX: UNITS: DATE : PROJECT/PLOT NO. : 5/29/2006 88.90826 ug/m\*\*3

PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF HIGH 2ND HIGH 24-HR VALUES FOR SOURCE GROUP: ALL ÷ -<del>i</del>-+1- $\rightarrow$ 나... + <u>-i</u>----------|--2820.26 2092.67 2456.42 20.00 30.00 40.00 COMPANY NAME : MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT OUTPUT TYPE: RECEPTORS: COMMENTS: MODELER: CONC 655 1990, SOx, 24hr, 2nd Troy Riecke \_₁0.1 km high MAX: UNITS: DATE: PROJECT/PLOT NO.: 5/29/2006 41.75246 ug/m\*\*3



PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF HIGH 2ND HIGH 3-HR VALUES FOR SOURCE GROUP: ALL 3052.50 ÷ -----+ ÷ .... ----+ 2092.67 2456.42 2820.26 50.00 60.00 70.00 MODELING OPTIONS: COMPANY NAME: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT OUTPUT TYPE : RECEPTORS: COMMENTS: MODELER: CONC 655 1991, SOx, 3hr, 2nd high **Troy Riecke** ⊣0.1 km MAX: UNITS: DATE: PROJECT/PLOT NO.: 78.76009 ug/m\*\*3 5/29/2006

PROJECT NAME: Idaho Asphalt Supply
PLOT FILE OF HIGH 2ND HIGH 24-HR VALUES FOR SOURCE GROUP: ALL + ---1-÷ --2688.75 -† ---|----++ - | -2092.67 2456.42 2820.26 30.00 30.00 20.00 COMPANY NAME : MODELING OPTIONS: Millennium Science & Engineering, Inc. CONC, RURAL, FLAT, DFAULT MODELER: OUTPUT TYPE: RECEPTORS: COMMENTS: **Troy Riecke** \_ 0.1 km CONC 655 1991, SOx, 24hr, 2nd high MAX: UNITS: DATE: PROJECT/PLOT NO.: 5/29/2006 33.36945 ug/m\*\*3



## **APPENDIX F**

## STORAGE TANK NSPS APPLICABILITY EVALUATION



Idaho Asphalt Supply, Inc. Blackfoot, Idaho Facility

exempt	νes	Ves	٧es	¥es	15 229	00	Hube Oil/Amines/Tall Oil Storage	Tank V
exempt	yes	yes	yes Se	уes	15,229	0.0	Lube Oil/Amines/Tall Oil Storage	Tank J
exempt	yes	yes	yes	yes	15,229	0.0	Lube Oil/Amines/Tall Oil Storage	ank G
exempt	yes	yes	yes	yes	15,229	0.2	Ligninamine Storage	Tank B
exempt	yes	yes.	yes	yes	15,229	0.1	Fatty Acid Derived Amines Storage	ank A
exempt	yes	yes	no	no	45,686	0.4	Asphalt Cement Storage	ank 9
exempt	yes	yes	no	no	414,555	0,1	Asphalt Cement Storage	Tank 8
exempt		yes	no	no	223,775	0.4	Asphalt Cement Storage	Tank 75
exemi		yes	no	no	223,775	0.4	Asphalt Cement Storage	ank 74
exempt		yes	90	no	414,555	0.1	Asphalt Cement Storage	ank 7
exempt		yes	yes	yes	11,374	0.1	Cracked Heavy Oil Alkyl Amines Storage	ank 69
exemi		yes	yes	yes	11,374	0.1	Cracked Heavy Oil Alkyl Amines Storage	ank 68
exempt		yes	yes	yes	11,5/4	0.7	Cracked neavy On Alkyl Affilines Storage	Tarik 60
exempt	yes	ýs.	TO O	ā	217,50/	0.4	Aspirat Certett Storage	ank co
מאפזווטר	yes	Y	3 2	3 5	t, '72		Asphalt Comont Storage	2012
exempt exempt	Vec	ycs	3 2	3 5	74 77	0.0	Asphalt Emilision (Mater-Resed) Storage	ank 55
tumaya	Vec	VP	B :0	200	27 255	00	Asphalt Emulsion (Water-Rased) Storage	ank 54
eyemi		VP.	no ;	3	41 455	00	Asphalt Emulsion (Water-Rased) Storage	ank 53
exempt		Ves	no	no	41,455	0.0	Asphalt Emulsion (Water-Based) Storage	ank 52
exemi		yes	no	no	41,455	0.0	Asphalt Emulsion (Water-Based) Storage	Tank 51
exem	yes	yes	on	9	41,455	1:5	Asphalt Emulsion (Fuel-Based) Storage	ank 50
exempt	yes	yes	no	no	211,507	0.4	Asphalt Cement Storage	ank 5
exempt	yes	yes	no	no	41,455	1.5	Asphalt Emulsion (Fuel-Based) Storage	ank 49
exempt	yes	yes	no	no	41,455	0.0	Asphait Emulsion (water-Based) storage	ank 48
exempt	yes	yes	no	no	41,455	0.0	Aspiralt Emulsion (water-Based) Storage	ank 4/
exempt	yes	ýS	no	no	47,455	O.O	Aspiral Effusion (water-based) storage	40 A 40
exempt	yes	Yes	no	no	41,455	0,0	Aspirali Emusion (water-based) storage	Tark 45
exempt	yes	yes	no	no	41,455	0.0	Asphalt Emulsion (water-Based) Storage	IANK 44
exempt		yes.	20	no	217,50/	0.4	Aspiralt cement storage	disk 4
exemp		yes	no	no	2,350,082	0.1	Asphalt Cement Storage	Iank &
exempt		yes	no	no	1,652,402	0.1	Aspnait Cement Storage	ank 5/
exemp		yes.	no	no	1,652,402	0.3	Asphalt cement storage	Idrik 56
exempt		yes	no	3	2,350,082	0.1	Aspnait Cement Storage	1ank 55
exempt		yes	yes	yes	10,152	0.4	Asphalt Cement Storage	iank 520-1
exempt	yes	yes	yes	no	2/,0/3	2.0	Lube on storage	ank 300 4
exempt		yes	i 0	ē	41,455	- -	כתנשמרא סנטו משפ	2017
exemp		5	ý	yes	17,767	2.0	Napricia storage	Tank o
exempt		Š	Š	ā	27,075	70	Nisphtha storage	00 year
ехетірі		yes.	yes	yes	77,767	0.4	#   Diesel Fuel Stollage	OCO LAIK 2/
exempt	yes	yes	Yes	no	27,073	1.5	A Discol Titul Charles	Idilk 20
exempt	yes	Š	Š	Š	77,70/	0.4	# 1 Dieset Fuel stol age	101 V CO
exempt	ž y	y S	YS	<u> </u>	47 767	2 :-	#4 Diecel Steroog	Tank 25
exem		\$	Í	ğ	2,015	)	Catalytic Cracked oil Stoman	2012 2020 I
exempt		Š	yes	ğ	10,425	2 -	Achhalt Comont Process Tank	Tank 0220-4
exempt		Š	Ý	Yes	10,425	, i	Appliant Compact Storage	25 Aut.
exempt		¥ S	Š	ýg	10,000	0.1	Cracked rieary of Arkyt Artifice storage	Tank 33
CACIADO		100	VOC	Š	12 526	2 :	Cracked Heavy Oil Allwi Amines Storage	OC Aue.
exemr		Vec 3	70	no	41 455	13	Cutback Storage	Tank 2
exempt	VPS	VPS	VPS :	¥es :	11 374	01	Cracked Heavy Oil Alkyl Amines Storage	Tank 19
exempt	Ves	Vex.	no	no	635.462	0.1	Asphalt Cement Storage	ank 18
exempt	Ves	Ves	no	no	846,030	0.1	Asphalt Cement Storage	Tank 17
exempt	Ves	Ves	no	no	635,462	0.1	Asphalt Cement Storage	ank 16
exempt	γes	yes	no	on	846,030	0.1	Asphalt Cement Storage	ank 15
exempt	yes	yes	no	no	846,030	0.1	Asphalt Cement Storage	ank 14
exempt	yes	yes	no	90	846,030	0.1	Asphalt Cement Storage	ank 13
exempt		yes	yey	yes	7,050	0.1	Cracked Heavy Oil Alkyl Amines Storage	Tank 12
exempt		yes	no	3	414,555	0.1	Asphalt Cement Storage	Tank 10
eyember	V. 41 Viceboa:	A_41 /d.onpa.	ž.		(gallons)	(kpa)		
II COMPANY	٠.	* YOY2 55730	451m35	<75 m³>	5	Average VP	PRODUCT DESCRIPTION	- 627

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